

POLICY OF INTEGRATION AND COOPERATION WITH THE EU ON LEADING POSITIONS AND COMPETITIVENESS OF THE UKRAINIAN ECONOMY⁸

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Abstract

The article examines the trends and prospects of the development of relations between Ukraine and the EU with using modern assessment methods, outlining geopolitical priorities of Ukraine's integration strategy, determining the legal aspects of relations between Ukraine and the EU, and analyzing the main directions of cooperation between Ukraine and the EU. The state of modern Ukrainian European integration policy is investigated, too. The article substantiates the peculiarities of the development of the agrarian sector of the economy in the context of integration into the EU. The current problems of national integration strategies in the context of the main aspects of the modern EU are also analyses. The use of an econometric method for predicting the effectiveness of the integration of cooperation between the EU and Ukraine is offered. The theoretical effects of Ukraine's integration with the EU and the possibility of their implementation in practice are determined as well.

INTRODUCTION.

A characteristic feature of the modern world development of the countries is increasing of integration processes in the world and Europe in particular. However, even those countries that are not the part of the integration associations inevitably feel y their considerable influence. Following the last enlargement of the EU Ukraine has become a direct neighbor of the European Union. This opens up new opportunities for extending cooperation between Ukraine and the EU.

The question of the integration of choice was an important part of the national development strategies of Ukraine since the very beginning of the country's existence as a sovereign state. Geopolitically, Ukraine is located between large integration associations: the European Union (EU) in the west and the associations of the countries of the former Soviet Union in the east, the most important of which are the Eurasian Economic Union (YEAES) and the Commonwealth of the Independent States (CIS). Ukraine's relations with these associations have expanded so far.

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For a long time, promoting Ukraine's cooperation with the EU was seen as a major development strategy as the integration within the CIS had proceeded slowly through a complex restructuring of the economies of member countries of the association. The study of the influence of extending integration with the EU on the economy is important for working out the strategy of development of Ukraine. The issue is complicated by the fact that since 2013 Ukraine has been going through a deep economic crisis that significantly affected the change of starting positions of the country entering a deep and comprehensive free trade area with the EU. The signing of the Association Agreement actually became an important event in bilateral relations between Ukraine and the EU.

The research of domestic scientists justifies the necessity of Ukraine's integration into Western civilization, which in its development must achieve those criteria, which recognizes the readiness of the candidate country for EU membership and the implementation of the legislative heritage of the united Europe: I. Gryshova, V. Heyets, V. Tochilin, V. Sidenko, I. Klimenko, O. Fedirko, I. Us, T.

Ostashko, L. Voloshchenko, I. Kobuta, V. Pyatnitsky, I. Burakovsky, V. Movchan, D. Lyapin, S. Kozyakov, A. Goncharuk, N. Nichay and many others.

As the position of the governing bodies of the EU and European scholars shows, there is also the need for the formation of intermediate conditions - WTO membership and ensuring political stability and a competitive economy. Among the topical issues nowadays are the analysis of the consequences of recent enlargements of the EU at the expense of central and eastern Europe, the current complications and problems of domestic political progress and external priorities of the ruling elites of Ukraine, which are increasingly linking the possibilities for intensifying domestic integration policy only in the context of its Euro-Atlantic dimension and the corresponding structures (Gorbulin V.P., Nemyrya G.M., Perepelytsya G.M., Chaly O.O.).

A number of other researchers pay attention to the conditionality of Ukraine's European integration progress with the need to build modern, truly democratic political institutions and the development of civil society (Babkina O.V., Barkov V.Yu., Kresina I.O., Kudryachenko A.I., Pakharev A.D., Shchedrova G.P., Yakimenko Yu.V.).

DEVELOPMENT.

Materials and methods of research.

In the course of the research, general scientific and special research methods have been used, in particular: theoretical generalization, comparison and morphological analysis – in the process of formation of the conceptual-categorical apparatus of research; system analysis – Identification of opportunities and substantiation of the results of integration of cooperation with the EU; strategic and structural-functional analysis - to formulate the conceptual principles of constructing components of the model for choosing methods for the effective integration of Ukraine's economy into the EU.

Results and discussions.

The main directions of economic cooperation between Ukraine and the EU in the framework of the Association Agreement. Since 01/01/2016 p. the Association Agreement of Ukraine has come into force with the EU, which is conditionally divided into two parts - political and economic. It is the economic part of the agreement that is worked out in detail and proven as the most important in the extending of the integration of cooperation between Ukraine and the EU because it is designed to give Ukrainian economy new opportunities for growth and development.

It should be emphasized again that the integration between Ukraine and the EU is formed according to the model of asymmetrically deep and comprehensive free trade area. Accordingly, from the author's point of view, all the changes that have to take place by the virtue of the Agreement can be divided into five key areas:

The formation of a free trade area.

The expansion of the trade area in services.

The regulation of the trade with intellectual property rights.

The regulation of trade with energy and cooperation in the energy sector.

The harmonization of the legislation of Ukraine in accordance with the EU regulations.

One of the major results of fulfilling the Agreement should be the abolition of import duties, which will theoretically allow Ukrainian goods to enter the European markets on more favorable terms. This will also have to promote and consolidate the application of the national treatment. However, taking into account the main articles of the Ukrainian export to the EU, significant opportunities for expanding its presence in the European markets will not arise in Ukraine (Association Agreement between the European Union and its Member States, of the one part, and Ukraine, of the other part, 2014).

For a variety of the agricultural products "import quotas", or size limits admissions are set by the EU. According to experts, these quotas subject to no more than 10% of Ukrainian corn export, 25% of confectionery, juices 40%, 50% wheat, etc subject under these quotas. To the extent protected in the EU there are 40 headings, whereas there are only three in the whole Ukraine - pork, poultry and sugar. So, not physical amounts of exports but the profits of some Ukrainian agricultural exporters will potentially increase. As for the Ukrainian commodity exports (ore, coal, wood, etc.), at the time of signing the Agreement, import duties on most of these headings were not applied. This refers to the metallurgical industry production (Statistical information).

Mutual cooperation in the energy sector between the EU and Ukraine includes a number of areas, as reflected in Article 338 of the Treaty. The most important, from the author's point of view, are as follows:

"Modernization and gradual integration of the electricity system of Ukraine to the European electricity grid, creating a new energy infrastructure in order to diversify energy suppliers".

"Conducting reforms based on the EU rules and standards for the development of competitive, transparent and non-discriminatory energy markets".

"Promoting energy efficiency and conservation in line with the EU standards".

"Revitalization and strengthening of the long-term stability and security of trade in energy goods, their exploration, extraction, purification, production, storage, transit, transmission, distribution and marketing".

"Promoting mutual investment to the energy sector and establishing attractive stable investment climate".

"The development and support of renewable energy".

"Scientific and technical cooperation and the exchange of information for the development of technologies in the field of energy production, its transportation and end use."

Thus, in the future Ukraine is expected to do important work in changing laws and making reforms that will have to bring the energy sector to European standards.

One of the major potential benefits for Ukraine may become the possibility of solving the problem of extremely high physical and moral depreciation of fixed assets, gas transportation system (GTS). According to 2009 more than 70% of the total length of gas pipelines and about 80% of gas pumping compressor stations worked more than 20 years, the technical conditions of most storage facilities did not satisfy the requirements for their operation 85% of the basic equipment, 62% of wells and 84% of special hardware at the moment of state inventory worked for half its life. This is displayed in the low efficiency of the GTS, large current transmission losses and high probability of accidents during operation.

One of the most expensive destinations for Ukraine, most likely, will be the harmonization of national legislation of the country in accordance with the EU norms. The most important is the introduction of the European technical standards as national (Section 4, Chapter 3, Article 56) and the maximum approximation of the laws of Sanitary and Phytosanitary Measures (Section 4, Chapter 4, Article 64). However, the Agreement framework also stated the approximation of legislation in other areas - public procurement (Section 4, Chapter 8, Article 153), competition (Section 4, Chapter 10,

Article 256), statistical calculation (Section 5, Chapter 5, Article 356) , environmental protection

(section 5, chapter 6, article 363), transport (section 5, chapter 7, article 368), electronic

communication (section 5, chapter 14, article 394), consumer rights protection (section 5, chapter 20,

article 417).

It was the introduction of European technical standards as national ones causing the greatest concern to domestic producers. The country operates many businesses that do not work on exporting and supplying its products exclusively to the domestic market. However, with the beginning of action of the European standards all producers, without exception, will have to either put them into production,

or exit the business in connection with the incompatibility of their products to necessary quality indicators (Gryshova, 2015).

Since 11.01.2014, Ukrainian goods were given preferential access to European markets. The main advantage of partial entry of the agreement into force for Ukraine was receiving trade preferences on the EU markets (canceled almost 95% of tariffs on the EU goods in industrial production and 80% - for agricultural products) while maintaining its duties on European goods. However, the expected growth of Ukraine's exports to the EU did not happen.

Due to the unfavorable economic and political situation in Ukraine during 2014-2015 years granting trade preferences with the EU has not made a positive impact on Ukrainian exports. If in 2014 as a whole, its volume increased by 1.5% and 16 countries out of 28, showed positive trend in 2015 this dynamic was shown by only three countries: Slovenia (slight 1.8%), Denmark (15%) and Malta (655.6%), which characterizes not so much a real deepening of trade relations between the countries but unprecedented intensification of Ukrainian business in terms of the use of offshore schemes. On average, in individual countries falling exports from Ukraine amounted to 20-30%, and a total export to the EU countries in 2015 decreased by 23.3%. In the short-term, Ukraine will certainly expect problems with the whole set of adverse effects, and to receive any benefits in the long run requires the development of methods of forecasting assess of the effectiveness of the Agreement, taking into account the current state of the economy and significant financial problems in Ukraine.

The results of cooperation between Ukraine and the EU in the framework of the Association Agreement, first of all, should reflect the volume of foreign trade of Ukrainian goods. To assess these potential changes, we will build the appropriate gravity model. The advantage of using this econometric method in this case is the inclusion in the model

dummy variable to assess the impact on exports and imports of the presence or absence of preferences in trade relations of the country with its major partners.

The model of J. Tinbergen proposed in 1962, is considered a classic one and is as follows: $E_{ij} = \alpha_0 GDP_i \alpha_1 GDP_j \alpha_2 DIS_{ij} \alpha_3$, (1)

where E_{ij} - the volume of exports from country i to country j , money units; α_0 - free term, constant; GDP_i - GDP i , money units;

$\alpha_1, \alpha_2, \alpha_3$ - indicators that show that factors and productive feature need not be directly proportional;

GDP_j - GDP j , money units;

DIS_{ij} - the distance between country i and country j , km.

The model of X. Linneman has a more general view, as it is assumed that the trade is influenced by not only GDP and the distance between them, but a number of other factors that can be expressed either numerically or by entering the model dummies. So we applied later model expressed by (2):

$E_{ij} = \alpha_0 GDP_i \alpha_1 GDP_j \alpha_2 POP_i \alpha_3 POP_j \alpha_4 DIS_{ij} \alpha_5 PREF_{ij} \alpha_6$, (2) where POP_i - the population of the country i , people .;

POP_j - the population of the country j , people .;

$PREF_{ij}$ - trade preferences between countries; if there are no Preferences, $PREF_{ij} = 0$ if there are preferences, then $PREF_{ij} = 1$

According to common practice, for ease of calculation we transform formula (2) to form a multiplicative additive through logarithms:

$\ln E_{ij} = \ln \alpha_0 + \alpha_1 \ln GDP_i + \alpha_2 \ln GDP_j + \alpha_3 \ln POP_i + \alpha_4 \ln POP_j + \alpha_5 \ln DIS_{ij} + \alpha_6 PREF_{ij}$

(3) Based on the formula (3), for the country i take Ukraine and build a gravity model $\ln E_{ij}$ of exports and imports $\ln I_{ij}$. This we will take into account the following conditions:

The model includes data on 28 EU countries (including data for Croatia for the entire study period), the countries of the free trade zone of the CIS, the countries, whose share in total exports /

imports of Ukraine is on average less than 1%. This geographical sample covers 83.2% of total exports and 88% of total imports in 2016.

The model is focused on Ukraine, that is the mutual trade flows of economic partners of Ukraine are not captured.

The observation period, 2009-2016 (8 years).

According to the conventional method, as an indicator of the distance between the countries, the distance in a straight line between the capitals of states is used.

The construction of models is made by a panel data with cross-platform software package for econometric analysis «Gretl».

The coefficient of determination of the model is 80%. Thus, the mathematical description of gravity model export $\ln E_{ij}$ Ukraine is as follows:

$$\ln E_{ij} = -37,61 + 1,08 \ln GDP_i + 8,21 \ln POP_i + 0,24 \ln POP_j - 1,49 \ln DIS_{ij} + 0,52 PRE_{Fij}. \quad (4)$$

Testing the constructed model for heteroskedasticity has also revealed its presence. Let us construct a model $\ln I_{ij}$ adjusted for heteroskedasticity.

The coefficient of determination of the model is 86%. Thus, the mathematical description of gravity model of import $\ln I_{ij}$ Ukraine is as follows:

$$\ln I_{ij} = -30,45 + 1,21 \ln GDP_i + 0,63 \ln GDP_j + 6,17 \ln POP_i + 0,33 \ln POP_j - 1,42 \ln DIS_{ij} + 0,42 PRE_{Fij}. \quad (5)$$

Let us predict the volume of foreign trade of Ukraine for 2017 based on the following changes in the availability of preferential trade regimes:

The cancellation of preferences in bilateral trade between Ukraine and Russia.

The provision of European goods preferential conditions for access to the Ukrainian market.

Note that due to the high unpredictability of current trends adequate forecasting is possible only in the short term.

As a result of calculations based on the models built by the author of the models (4) and (5) of possible volumes of foreign trade of Ukraine with selected countries in 2017, the following predictions were received:

The drop in exports to the countries - the main partners, compared to 2016 will amount to 13.3% (from 31.7 billion. US dollars to 27.5 billion US dollars).

The drop in imports from the countries - the main partners, compared to 2016 will amount to 8% (from 32.6 billion. US dollars to 30 billion US dollars).

The growth of exports to the EU compared to 2016 will be 2.8% (from 13 billion. US dollars to

13.4 billion US dollars).

The increase in imports from the EU compared to 2015 will amount to 30.4% (from 15.3 billion.

US dollars to 20.1 billion US dollars).

The recovery of preferential trade conditions with Russia may increase the volume of Ukrainian exports to 2.1 billion US dollars (6.6%), imports - by 2.3 billion US dollars (1%).

On the basis of the calculations, several important findings can be made. First, as a whole in 2017 a further decline in the Ukrainian foreign trade (especially - exports) will be observed. Second, the growth of Ukraine's foreign trade with the EU countries (especially - imports) is predicted. Thirdly, the abolition of preferential regime in mutual trade between Ukraine and Russia will seriously affect the change in the total volume of foreign trade of Ukraine (especially - for export).

The possibilities for expansion of Ukraine's exports are limited. Unilateral preferences regime in relations between Ukraine and the EU has also acted in 2016, but the effect of the opening of European markets for Ukrainian goods, was fully offset by a huge drop in the economy of the country. So, the primary task for the Ukrainian economy is to achieve the pre-crisis volume of exports, that can contribute to the mutual lifting of trade barriers. In any case, we should not expect a significant increase in exports (Plummer, 2010).

There is a theoretical threat of a sharp increase in imports associated with the opening of the national market for European producers. However, from a practical point of view it is unlikely to happen. The fact is that the gravitational model does not account for reducing the solvency of the Ukrainian population. Even if there is a significant increase in the number of products manufactured in Europe, due to the sharp devaluation of the currency the prices will significantly grow. The population of Ukraine, in its turn, does not have enough money to buy either expensive goods, or the goods of the middle class.

According to the State Statistics Service of Ukraine, in 2015 9.4% of the population had income below the subsistence minimum. It should be noted that the growth rate of the subsistence minimum does not correspond the rate of growth of consumer price index; for example, in 2014 the living wage increased by 5.6% against rise in prices of 12.1%. In 2015, price increase as for 2014 was 48.7%, while the cost of living for the year rose by only 13.1%. This means that according to the results of 2015 the proportion of the population with low incomes significantly increased. Ultimately, in the short and medium term, European manufacturers will have little interest in such a broad increase in exports to Ukraine.

Cooperation between Ukraine and the EU is asymmetrical due to the fact that the partners differ not only in the size and level of economic development, but also in the role played by each other. Therefore, one should take into account that by theoretical implementation of the Association Agreement Ukraine should get relatively more advantages than the EU. The expected effects of the implementation of the Agreement and the author's evaluation of their feasibility in the current crisis are shown in Table 1 (Tinbergen, 1962; Troyekurov, 2014).

One of the major trends of 2017-2019, will likely remain the decline in the volumes of industrial production. If in 2013 the share of industry in the economic structure of Ukraine

comprised 29%, then by 2015 it had dropped to 24.4%. The violation of the production chain "coal-coke-metal" leads

to a decline in production volumes in a leading steel industry. Existing enterprises experience the disruption in the supply of raw materials and export of manufactures. There has been a sharp decline in production in areas where cooperation has been developed, particularly in engineering. The production in the mining industry only during 2014 dropped by 35%, and chemical - by 36%.

Table 1. The theoretical effects of Ukraine's integration with the EU and the possibility of their implementation in practice.

The theoretical effect	The expected realization of The theoretical effect in practice after signing the Association Agreement	Author's assessment of the feasibility of implementing the desired effect in practice
The effect of "trade expansion"	expanding the range of quality goods of the European production on the domestic market; an increase in exports of goods and services in the EU	1) A significant increase in imports is unlikely of reasons: Reducing of the demand on the domestic market; Reducing purchasing power; An increase in import prices due to the devaluation of the national currency. 3) The imported products are likely to be substituted by uncompetitive goods domestic production. Failure to expanding trade in manufacturing due to its low competitiveness. Weak expand of agricultural trade due to the existence of "import quotas".

<p>The effect of the "revitalization of investments"</p>	<p>-the improvement of the investment climate, resulting in the increase of the volumes of foreign Investment in the economy of Ukraine</p>	<p>The current state of the investment climate promotes the capital outflow from Ukraine.</p> <p>The interest in investing in Ukraine's economy is unlikely in other countries.</p> <p>In the long run the European intensive production may remove geographically close to the Ukrainian mining enterprises, however, it is difficult to estimate the rationality of this redislocation.</p>
<p>The effect of the "scale"</p>	<p>The abolition of customs duties will help to increase the production volumes;</p> <p>The production costs will decrease due to the "Effect of the scale"</p>	<p>The current state of crisis of the industrial complex will not contribute to significant expansion in output.</p> <p>A significant expansion of production of goods of uncompetitive manufacturing is unlikely due to low demand for them in Europe.</p> <p>4) A significant expansion of agricultural production is unlikely because of the existence of "import quotas".</p>

<p>The effect of the "employment growth"</p>	<p>the opening of production units on the territory of Ukraine by European companies;</p> <p>the recognition of the Ukrainian diplomas and qualifications in the EU;</p> <p>facilitating the migration of Ukrainian citizens to the EU.</p>	<p>It is difficult to predict how European companies will be interested in transferring their production to Ukraine in the current economic crisis.</p> <p>The text of the Association Agreement between Ukraine and the EU has no direct links to facilitating migration regime or recognition of Ukrainian qualifications; there is the only reference to the inclusion of these issues to the agenda of the talks on further</p>
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		cooperation.
The effect of "increasing productivity"	upgrading and modernization of national production	In the current crisis conditions the Ukrainian companies are practically deprived of the financial capacity of upgrading and modernization of production.
The effect of "increasing income"	Lower prices for the products by European production. Increasing incomes of the population through the realization of the effect of "increasing employment".	Reduced incomes of the population due to the devaluation of the currency, the rising of prices and utility tariffs.

These negative trends occur due to the influence of a combination of factors that facilitate and hinder the development of industry in the country. On the one hand, there is a theoretical chance of carrying some European industries in Ukraine because of the relatively low cost of labor. On the other hand, as it was mentioned above, European manufacturers will have little interest in expanding production in the face of shrinking demand. In addition, there are high risks of the default investments.

There are other factors as well. Ukrainian producers will have to switch to European standards of production quality, and it requires considerable financial costs. Most businesses need to spend almost complete modernization of the production process and train the staffs to work with new technologies. The Agreement empowers enterprises potentially to access to European credits, but many manufacturers are on the verge of bankruptcy and, accordingly, are high risk, so they are unlikely to qualify for all European credits, not to mention the impossibility of obtaining any credit facilities. There is a tendency to increase the country's exports towards low trade processing. The EU is

generally more interested in preserving raw orientation of Ukrainian exports (Shestakovska at all, 2018).

Probably, in 2017-2019 the difficulties in attracting investments in Ukraine, both in the public and in the private sector will continue. The investors are not interested to invest in the country for several reasons: it is a high risk of loss of investment, high levels of corruption, unpredictable economic and political climate. Alongside with a decrease of investments in Ukraine's economy the outflow of domestic capital abroad is likely to continue.

We can't help mentioning negative social trends. The continued deterioration of Ukraine's economy will lead to higher unemployment, which in its turn will trigger a new round of emigration. Above 300 thousand of people emigrated to the EU in 2015, mainly in Poland, Czech Republic, Germany. On the whole, the likely volume of emigration will increase. Moreover, the tendency of transition of temporary labor migration, focused on returning to Ukraine in the constant migration is observed. Also, a negative impact on the population, especially the young and able-bodied has holding of military actions (Gryshova at all, 2017; Kopylenko at all, 2018).

The foregoing facts enable us to conclude that in the current conditions of Ukrainian economic reality, especially in the short-term period a significant expansion of cooperation between Ukraine and the EU is unlikely to happen, despite the fact that the signed Agreement creates necessary conditions for this.

The European integration course for Ukraine has no alternative, but on the way the country expects many difficulties, trials, disappointments, awareness of the need of a healthy national egoism and the prediction of the consequences of foreign policy and economic decisions and getting rid of the illusions of receiving significant foreign assistance and rapid resolution of external agents of our internal depth problems.

The economic integration as a process of development of sustainable relationships and deepening the division of labor, as a form of convergence and strengthening of cooperation of national economies could provide the impetus for the development of productive forces and modification of production relations. An important stimulating factor for the economy could be support for innovative enterprises (Pukala, 2016; Jarmuševiča et al, 2019; Pukala & Petrova, 2019; Koval et al, 2019; Petrova et al, 2018a; Popova et al, 2019, Popova, 2015). However, the integration is not able to replace a healthy economic policy aimed at the development of the internal market and the accumulation of domestic savings, the increase of national competitiveness and intensification of investments and innovations, attracting long-term foreign investments and the formation of strong and effective national companies.

CONCLUSIONS.

The need for developing an integration strategy for Ukraine was caused by the desire of our country to meet the requirements of modern global economic and political system as well as finding additional means to counter threats to international security.

The specific geopolitical position and a long history of cooperation with European countries contribute to Ukraine's interest in active participation in integration processes in Europe. Thus, the European integration is officially declared the key priority of Ukraine's foreign policy. For Ukraine, European integration is the way of modernizing the economy, overcoming technological backwardness, attracting foreign investments and new technologies, creating new jobs, increasing competitiveness of domestic producers, access to world markets.

Our study of the results of the Association Agreement between Ukraine and the EU leads us to the following conclusions. First, the stage for the growth of the Ukrainian economy and improvement of the living standards of its population are not created. Second, joining the Agreement in full force until it has improved economic conditions for Ukraine is not achieved. Thirdly stabilization and the

settlement of internal political and military conflicts are essential for a favorable economic development of the country.

The political benefits of the integration of Ukraine into the EU are related to the creation of reliable mechanisms of political stability, democracy and security. Moreover, the EU membership will open the way for collective structures of common security of the European Union, ensure a more effective coordination with European countries in the field of export controls and non-proliferation of weapons of mass destruction, help to intensify cooperation in combating terrorism, organized crime, smuggling, illegal migration, drug trafficking and so on.

The European choice of Ukraine opens new prospects for cooperation with the developed countries of the continent, providing opportunities for economic development, strengthening Ukraine's position in the global system of international relations. However, the success of any integration policy is not in the statements and declarations of the European choice, but in the banal pursuing the principles and objectives of this policy. The rapprochement with the EU is a guarantee, and the implementation of its requirements a tool for building democratic institutions in Ukraine.

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